UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/674,670	09/30/2003	Ludwig Busam	CM2701Q	5014
	7590 09/19/200 R & GAMBLE COMP	EXAMINER		
INTELLECTUAL PROPERTY DIVISION - WEST BLDG.			HAND, MELANIE JO	
WINTON HILL BUSINESS CENTER - BOX 412 6250 CENTER HILL AVENUE		ART UNIT	PAPER NUMBER	
CINCINNATI,	OH 45224		3761	
			MAIL DATE	DELIVERY MODE
			09/19/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Sh	

	Application No.	Applicant(s)		
	10/674,670	BUSAM ET AL.		
Office Action Summary	Examiner	Art Unit		
·	Melanie J. Hand	3761		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period was railure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirr vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
1)	action is non-final.			
Disposition of Claims				
4) ☐ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) 12-20 is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-11 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	n from consideration.			
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the I drawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119	•			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:	ate		

DETAILED ACTION

Response to Arguments

Applicant's arguments filed June 29, 2007 have been fully considered but they are not persuasive.

With respect to applicant's arguments regarding the rejection of claims 1-11 as anticipated by or, alternatively, as unpatentable over Funk: Applicant argues that Funk does not teach a nonwoven fabric having the properties set forth in claim 1. This is not found persuasive because the absorbent composition that eventually forms the absorbent core is comprised of nonwoven fibers used as a fiber network or matrix. (see Funk et al, Col. 19, lines 62-65) Thus the absorbent core taught by Funk is a nonwoven fabric.

Applicant further argues that the article of claim 1 is a water-permeable, nonwoven sheet for use in an absorbent core or wrap material and thus the absorbent core taught by Funk does not anticipate claim 1. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., that the claimed article is only a topsheet or only a core wrap material) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). Further, applicant's argument that the claimed article is one sheet is not possible since the article is disclosed and claimed as comprising at least a topsheet or core. Further, applicant's argument amounts to an intended use argument that is given little patentable weight. Claim 1 merely sets forth a nonwoven fabric, therefore the absorbent core of Funk anticipates claim 1.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., the claimed nonwoven fabric does not contain hydrogel fibers) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). There is no claim language which specifically precludes hydrogel materials as viable polymers for the article of claim 1. Further, applicant's specification discloses acrylic acid monomers such as methacrylic and ethylacrylic acid, i.e. acrylate monomers, which are known fundamental hydrogel manufacturing components. (Specification, Col. 12, lines 8-10) Funk also teaches acrylic acid as a hydrophilic monomer in Col. 9, lines 17-19. Thus Funk meets all of the claim limitations and the properties set forth in claim 1 either anticipate or render obvious the claimed article. Applicant has not successfully met the burden of showing that the properties claimed are not inherent properties of the article of Funk and thus the rejection of claims 1-11 as anticipate by or unpatentable over Funk is maintained.

Claim Rejections - 35 USC § 102/103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-11 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Funk et al (U.S. Patent No. 7,144,957).

With respect to claim 1: Funk teaches an absorbent article comprising a substantially liquid pervious topsheet, a substantially liquid impervious backsheet and an absorbent core between said topsheet and said backsheet, wherein said absorbent article comprises a nonwoven fabric

(Col. 16, lines 49-57), wherein said nonwoven fabric: a) comprises a plurality of fibers (Col. 16, line 57); b) inherently has a surface tension of at least 65 mN/m when being wetted with saline solution; c) inherently has a liquid strike through time of less than 5 s for a fifth gush of liquid; and d) comprises polymers comprising hydrophilic monomer molecules, a reaction product of a radical polymerization initiator molecules chemically grafted to the surface of at least a part of said plurality of fibers comprised by said nonwoven fabric, and agent molecules, wherein the amount of radical polymerization initiator molecules (0.01-5 wt% based upon weight of monomer) is less than 2 wt% of the monomer molecules and at least three times the amount of the agent molecules (0.05-2.0 wt% based upon weight of monomer). (Col. 12, lines 32-35) The argument of inherency is based upon the presence of said polymers in the absorbent core along with the claimed hydrophilic fibers. These polymers and hydrophilic fibers also constitute the core of the claimed invention, therefore the core taught by Funk inherently possesses the claimed surface tension and liquid strikethrough time after a fifth gush of fluid. When the structure or composition recited in the reference is substantially identical to that of the claims of the instant invention, claimed properties or functions presumed to be inherent (MPEP 2112-2112.01). A prima facie case of either anticipation or obviousness has been established when the reference discloses all the limitations of a claim (in this case, a nonwoven with hydrophilic monomers and radial polymerization initiator molecules) except for a property or function (in the present case, a specific surface tension or liquid strike through) and the examiner can not determine whether or not the reference inherently possesses properties that anticipate or render obvious the claimed invention but has a basis for shifting the burden of proof to applicant, as per In re Fitzgerald, 619 F.2d 67, 205 USPQ 594 (CCPA 1980).

With respect to claim 2: The nonwoven fabric comprises at least a first plurality of fibers (i.e.

those coated with the swelling polymer) and a second plurality of fibers (i.e. hydrophilic fibers), wherein said first plurality of fibers is different from said second plurality of fibers. (Col. 17, line 65 - Col. 18, line 6, Col. 18, lines 59-62)

With respect to **claim 3**: Only said first plurality of fibers has hydrophilic polymers grafted to their surface. (Col. 18, lines 59-62)

With respect to **claim 4**: The strike through time after said first and said fifth gush of said nonwoven fabric does not decrease more than 5% after storage of said absorbent article for at least 10 weeks. This limitation is also considered herein to be an inherent property of the fabric taught by Funk. The basis for this inherency argument has been stated *supra* with respect to claim 1.

With respect to claim 5: The polymerized hydrophilic monomer taught by Funk comprises a molecule comprising at least one unsaturated double bond. (Col. 9, lines 17-19)

With respect to **claim 6:** The polymerized hydrophilic monomer taught by Funk comprises a molecule comprising a group (i.e. carboxyl), which is able to react with an acid or base to form a salt. (Col. 9, lines 17-19)

With respect to claim 7: The polymerized hydrophilic monomer taught by Funk comprises acrylic acid. (Col. 9, lines 17-19)

With respect to **claim 8**: The polymers add at least on said first plurality of fibers from 0.3 wt% to 10 wt%. This rejection is based on Funk's teaching of the presence of the highly swellable hydrogel in the absorbent core of 10-100 wt % based upon the weight of the core, therefore the add-on weight percentage based upon the weight of the fiber will also be 10-100 wt% as the polymer is considered herein to be distributed evenly. This range overlaps the claimed range set forth in claim 8. (Col. 19, lines 51-53)

Page 6

With respect to claim 9: The polymers are added to said first and said second plurality of fibers in a weight percent range of 0.3 wt% to 10 wt%. This rejection is based on Funk's teaching of the presence of the highly swellable hydrogel in the absorbent core of 10-100 wt % based upon the weight of the core, which contains the first and second pluralities of fibers. This range overlaps the claimed range set forth in claim 9. (Col. 19, lines 51-53)

Claims 10 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Funk ('957).

With respect to **claim 10:** Funk does not teach that said topsheet comprises said nonwoven fabric, however since the topsheet is comprised of hydrophilic nonwoven materials and seeks to solve a similar problem in the art as the nonwoven fabric, it would be obvious to one of ordinary skill in the art to modify the device of Funk such that the topsheet comprises said nonwoven fabric with a reasonable expectation of success. (Col. 17, lines 54-60)

With respect to claim 11: The absorbent core is provided with a core wrap material (i.e. tissue), but Funk does not teach that the wrap material comprises said nonwoven fabric. However, since

Funk teaches tissue paper, which is a hydrophilic nonwoven material and the tissue layer seeks to solve a similar problem in the art as the nonwoven fabric, it would be obvious to one of ordinary skill in the art to modify the device of Funk such that the core wrap is comprised of said nonwoven fabric with a reasonable expectation of success.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melanie J. Hand whose telephone number is 571-272-6464. The examiner can normally be reached on Mon-Thurs 8:00-5:30, alternate Fridays 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tatyana Zalukaeva can be reached on 571-272-1115. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/674,670 Page 8

Art Unit: 3761

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Melanie J Hand Examiner Art Unit 3761

September 14, 2007

TATYANA ZALUKAEVA SUPERVISORY PRIMARY EXAMINER